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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/028,957
		Filing Date	January 2, 2002
		First Named Inventor	Vaidyanathan
		Group Art Unit	1755
		Examiner Name	Unassigned
Sheet	1	of	2
		Attorney Docket Number	03248.00042

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
MCU		US 5,024,978	06/18/91	Allaire, et al.	
MCU		US 5,250,243	10/05/93	Allaire, et al.	
MCU		US 5,936,861	08/10/99	Jang, et al.	

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FOREIGN PATENT DOCUMENTS					
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
MCU		M. K. Aghajanian, M. A. Rocazella, J. T. Burke, and S. D. Keck, "The Fabrication of Metal Matrix Composites by a Pressureless Infiltration Technique," <i>J. Mater. Sci.</i> , 26 447-54 (1991).			
MCU		J. J. Brennan and K. M. Prew, "Silicon Carbide Fiber Reinforced Glass-Ceramic Matrix Composites Exhibiting High Strength Toughness," <i>J. Mater. Sci.</i> , 17 2371-83 (1982);			
MCU		M. K. Brun, W. B. Hillig, and H. C. McGulgan, "High Temperature Mechanical Properties of a Continuous Fiber-Reinforced Composite Made by Melt Infiltration," <i>Ceram. Eng. Sci. Proc.</i> , 10 [7-8] 611-21 (1989).			
MCU		A. J. Caputo and W. J. Lackey, "Fabrication of Fiber-Reinforced Ceramic Composites by Chemical Vapor Infiltration," <i>Ceram. Eng. Sci. Proc.</i> , 5 [7-8] 654-67 (1984)			
MCU		A. J. Caputo, W. J. Lackey, and D. P. Stinton, "Development of a New, Faster, Process for the Fabrication of Ceramic Fiber-Reinforced Ceramic Composites by Chemical Vapor Infiltration," <i>Ceram. Eng. Sci. Proc.</i> , 6 [7-8] 694-706 (1985).			
MCU		D. R. Dryell and C. W. Freeman, "Trends in Design in Turbines for Aero Engines," pp. 38-45 in <i>Materials Development in Turbo-Machinery Design, 2nd Persons International Turbine Conference</i> , Edited by D. M. R. Taplin, J. F. Knott, and M. H. Lewis, The Institute of Metals, Parsons Press, Trinity College, Dublin, Ireland, 1989.			
MCU		E. Fitzer and R. Gadow, "Fiber Reinforced Composites Via the Sol-Gel Route," pp. 571-608 in <i>Tailoring Multiphase and Composite Ceramics, Materials Science Research Symposium Proceedings, Vol. 20</i> , edited by R. E. Tressler et al., Plenum Press, New York, 1986.			
MCU		Flight Vehicle Materials, Structures and Dynamics - Assessment and Future Directions, Vol. 3, edited by S. R. Levine, American Society of Mechanical Engineers, New York, 1992.			
MCU		J. Jamet, J. R. Spann, R. W. Rice, D. Lewis, and W. S. Coblenz, "Ceramic-Fiber Composite Processing via Polymer-Filler Matrices," <i>Ceram. Eng. Sci. Proc.</i> , 5 [7-8] 677-94 (1984)			
MCU		M. A. Karnitz, D. F. Craig, and S. L. Richlin, "Continuous Fiber Ceramic Composite Program," <i>Am. Ceram. Soc. Bull.</i> , 70 [3] 430-35 (1991).			



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
NCM		H. Kodama, H. Sakamoto, and T. Miyoshi, "Silicon Carbide Monofilament-Reinforced Silicon Nitride or Silicon Carbide Matrix Composites," <i>J. Am. Ceram. Soc.</i> , 72 [4] 551-58 (1989); *
NCM		P. Lamiot, G. A. Gernhart, M. M. Danchier, and J. G. Mace, "SiC/SiC Composite Ceramics," <i>Am. Ceram. Soc. Bull.</i> , 65 [2] 336-38 (1986); *
NCM		J. J. Lannutti and D. E. Clark, "Long Fiber Reinforced Sol-Gel Derived Al_2O_3 Composites," pp. 37-81 in <i>Better Ceramics Through Chemistry</i> , Material Research Society Symposium Proceedings, Vol. 32, North-Holland, New York, 1984; *
NCM		T. J. Mah, M. G. Mendiratta, A. P. Katz, and K. S. Mazdiyasn, "Recent Developments in Fiber-Reinforced High Temperature Ceramic Composites," <i>Am. Ceram. Soc. Bull.</i> , 66 [2] 304-08 (1987); *
NCM		R. L. Mehan, W. B. Hillig, and C. R. Morelock, "Si/SiC Ceramic Composites: Properties and Applications," <i>Ceram. Eng. Sci. Proc.</i> , 1 405 (1980); *
NCM		M. S. Newkirk, A. W. Urquhart, H. R. Zwicker, and E. Brevail, "Formation of Lanxide Ceramic Composite Materials," <i>J. Mater. Res.</i> , 1 81-89 (1986); *
NCM		D. C. Phillips, "Fiber Reinforced Ceramics," Chapter 7 in <i>Fabrication of Composites</i> , edited by A. Kelly and S. T. Mileiko, North-Holland Publishing Company, Amsterdam, The Netherlands, 1983; *
NCM		K. M. Prewo and J. J. Brennan, "High Strength Silicon Carbide Fibre Reinforced Glass-Matrix Composites," <i>J. Mater. Sci.</i> , 15 463-68 (1980); *
NCM		K. M. Prewo and J. J. Brennan, "Silicon Carbide Yam Reinforced Glass Matrix Composites," <i>J. Mater. Sci.</i> , 17 1201-06 (1982); *
NCM		K. M. Prewo, "Fiber-Reinforced Ceramics: New Opportunities for Composite Materials," <i>Am. Ceram. Soc. Bull.</i> , 68 [2] 395-400 (1989); *
NCM		K. Sato, T. Suzuki, O. Funayama, T. Isoda, "Preparation of Carbon Fiber Reinforced Composite by Impregnation with Perhydropolysilazane Followed by Pressureless Firing," <i>Ceram. Eng. Sci. Proc.</i> , 13 [9-10] 614-21 (1992); *
NCM		J. R. Strife, J. J. Brennan, and K. M. Prewo, "Status of Continuous Fiber-Reinforced Ceramic Matrix Composite Processing Technology," <i>Ceram. Eng. Sci. Proc.</i> , 11 [7-8] 871-919 (1990); *
NCM		L. R. White, T. L. Tompkins, K. C. Haleh, and D. D. Johnson, "Ceramic Filters for Hot Gas Cleanup," <i>J. Eng. for Gas Turbines and Power</i> , Vol. 115, 665-69 (1993); *

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Examiner Signature	Mayer	Date Considered	11/18/03
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